

REMARKS

Claims 1-14 are pending in this application. Of those, claims 1-10 and 13-14 have been withdrawn by the Examiner pursuant to a Restriction Requirement mailed on May 4, 2005. By this amendment, Applicants have amended claim 11 and Figure 9.

In the Office Action, the Examiner has objected to the drawings and, in particular, has suggested that Figure 9 be amended to include the text "PRIOR ART". Applicants have amended Figure 9 in that regard. Toward that end, a replacement sheet is attached with the phrase "REPLACEMENT SHEET" in the header area. An annotated marked-up copy of the replacement sheet is also attached, indicating that the phrase "PRIOR ART" is inserted text. No new matter has been added. Applicants respectfully request withdrawal of the objection to the drawings.

Also in the Office Action, claims 11 and 12 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Girrens et al (U.S. Pat. No. 6,154,364) in view of Jackson et al (U.S. Pat. No. 5,006,417). Applicants respectfully traverse. However, in the interest of advancing prosecution, Applicants have amended claim 11. Claim 11, as amended, includes the feature of a heat spreader which is formed of a low expansion material including two or more kinds of SiC particles having different grain sizes and an Al material, the heat spreader being joined to the top face of the circuit board. Support for the amendment can be found throughout the specification as filed, for example, in original claims 1 and 6, and in the specification at page 3, lines 1-14. No new matter has been added.

Girrens discloses a heat spreader made of iron-nickel alloy available under the tradename INVAR® (col. 3, lines 25-28). Girrens fails to disclose a heat spreader which is formed of a low expansion material including two or more kinds of SiC particles having different grain sizes and an Al material, as required by amended claim 11.

Jackson fails to remedy the deficiencies of Girrens. Jackson discloses a ternary metal matrix composite comprising an aluminum alloy matrix and a reinforcement material of silicon carbide and silicon (col. 2, lines 43-45). Jackson, however, like Girrens, also fails to disclose a heat spreader which is formed of a low expansion material including two or more kinds of SiC particles having different grain sizes and an Al material.

Accordingly, for at least the foregoing reasons, Applicants respectfully submit that claims 11 and 12 are patentable over the combination of Girrens and Jackson, and thus, respectfully request that the rejections be withdrawn.

CONCLUSION

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration and withdrawal of the rejections and allowance of this application.

AUTHORIZATION

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. **13-4500**, Order No. 5000-5118. A DUPLICATE OF THIS SHEET IS ATTACHED.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. **13-4500**, Order No. 5000-5118. A DUPLICATE OF THIS SHEET IS ATTACHED.

Respectfully submitted,
MORGAN & FINNEGAN, L.L.P.

Dated: December 21, 2005

By: _____


Peter N. Fill

Registration No. 38,876

Correspondence Address:

MORGAN & FINNEGAN, L.L.P.
3 World Financial Center
New York, NY 10281-2101
(212) 415-8700 Telephone
(212) 415-8701 Facsimile

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FIG. 7

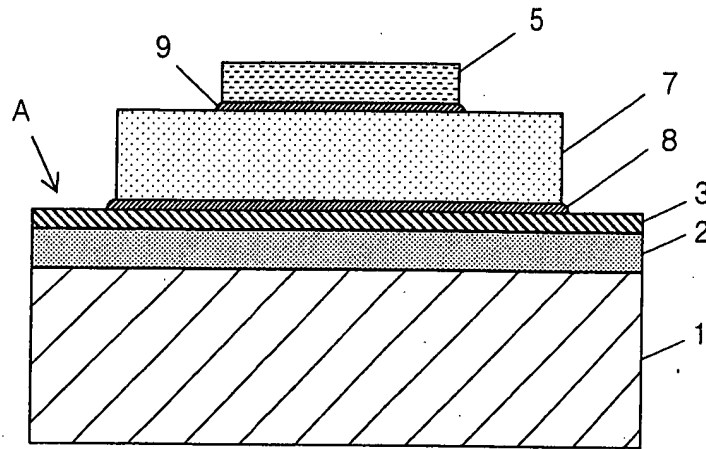


FIG. 8

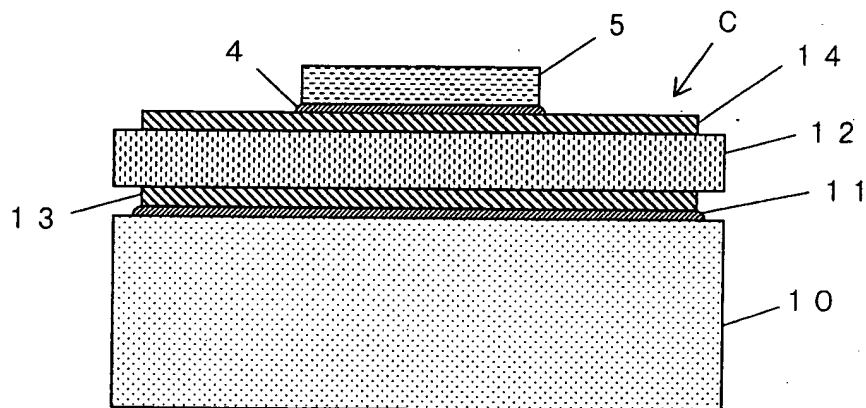


FIG. 9

PRIOR ART [inserted text]

